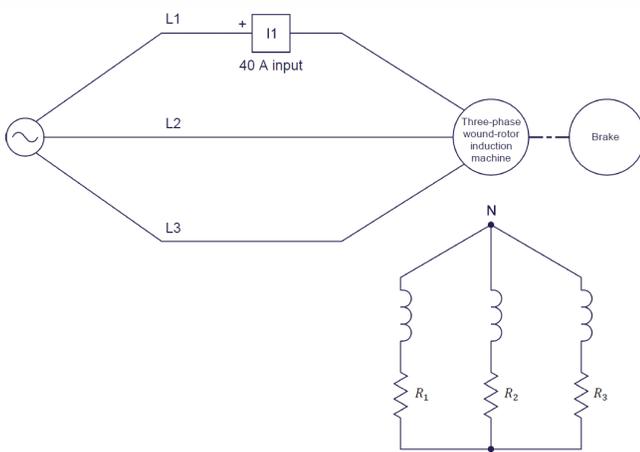


Three-Phase Wound Rotor Induction Machine

Course 86367

The Three-Phase Wound-Rotor Induction Machine course introduces students to the operation of three-phase wound-rotor induction machines. Students then examine the effects which varying the rotor resistor has on the starting current and torque of the machine. Through this process, students also learn how to vary the rotation speed of a wound-rotor induction machine.



Typical wound rotor found in three-phase wound-rotor induction machines.

Topic Coverage:

- » Explore the three-phase wound-rotor induction machine.
- » Discover how a three-phase wound-rotor induction machine can operate as a three-phase squirrel-cage induction machine.
- » Analyze the effects of varying the rotor resistance of a three-phase wound-rotor induction machine.

Features and Benefits:

- » Precise analysis using an oscilloscope of the current and speed of a three-phase wound-rotor induction machine at start-up, with and without rotor resistance.
- » Great introduction to the machine used in a doubly-fed induction generator (DFIG).

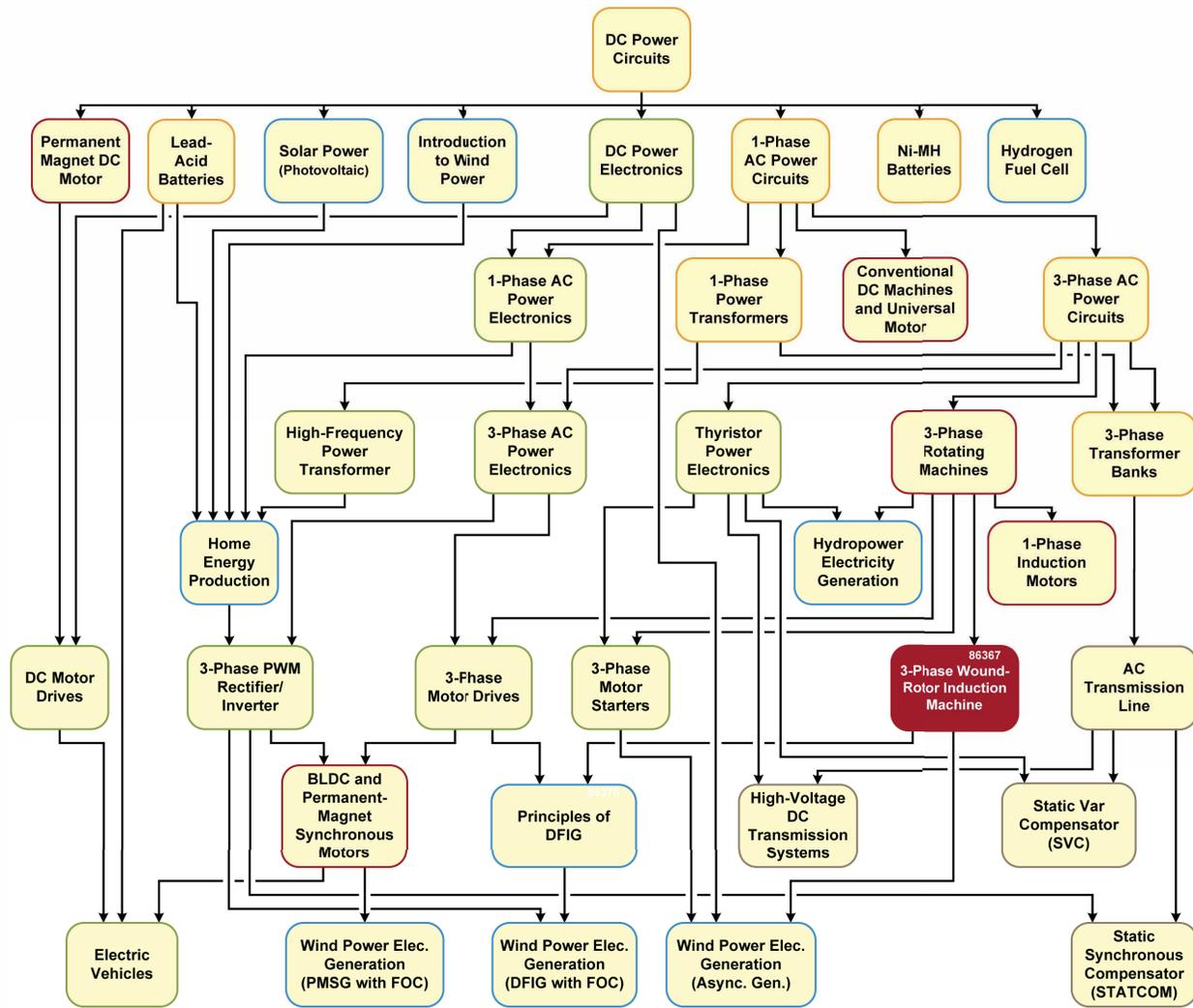


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Photo courtesy of Siemens



Lab-Volt Electric Power Technology Training Program



Equipment

Qty	Model	Description	Qty	Model	Description
1	8134-2	Workstation	1	8960-C	Four-Quadrant Dynamometer/Power Supply
1	8231-B	Three-Phase Wound Rotor Induction Motor	1	9063-B	Data Acquisition and Control Interface
1	8311	Resistive Load	1	30004-2	24 V AC Power Supply
1	8823	Three-Phase Power Supply	1	86367/-1	Student Manual/Instructor Guide
1	8942	Timing Belt			
1	8951-L	Connection Leads			

Lab-Volt reserves the right to make product improvements at any time and without notice. **Note:** A computer is required to perform the exercises.

